

Off–line Calibration/Monitoring

Current Projects

Silvia's Fortran Jet energy corrections for the fall 1999 production to use with your ntuples

Andrei's Fortran Jet energy corrections for the fall 2000 production to use with your ntuples

Nearest future: correction with readout weights for the fall 2000 production (Alexei,Irina,Olga).

on-going tasks

- o **new jet calibrations with new versions of CMSIM (Andrei)**
- o **including radiation damages in CMSIM for HE (Andrei, Vladimir Palichik)**
the first result should be to the middle of May.

Jun '01

- o **note on optimization of weights in jet finding (Irina, Olga, Alexei) going**
- o **note on jets in L1 trigger, including how to calibrate L1 (Andrei)**
- o **evaluate backgrounds and rate for gamma+jet and Z+jet for calibration Igor Lokhtin, V.Konopliannikov – preparation for prod.**
- o **note on Monte Carlo study of source calibration – Erchov, Gribushin going.**

Nov '01

- o determine methodology for extracting calibration coefficients from gamma+jet and Z+jet events – Irina and Olga**
- o note on how to use mean E_t in eta (pile up and HIC) in calibration – S.Petrouchanko, K. Teplov**
- o note describing what kind of test beam is needed for calibration HB/HE (2 FTE)**
- o the same for HF (Kolosov, Erchov, Gribushin)**
- o calibration at high luminosity (?)**
- o determine methodology for extracting calibration coefficients (for single particles,jets) using tracker information. (Irina, Olga,Alexei)**

- o Basing on the results of the fiber radiation damage measurements simulate the suggested scenario of the HF recalibration with the source simultaneously with the control measurements by the LED/laser system (Erchov, Gribushin)**
- o Using M.–C. simulation of the HF operation determine the method of the calibration constant correction for two variants: permanent correction at the on–line operation (for the using of HF in the trigger) and long–term precision correction for off–line data processing (Erchov, Gribushin)**
- o investigate possibility to use neutron monitors for the permanent monitoring of HF operation (Erchov, Gribushin)**
- o interface in ORCA for calibration data – off–line calibration database(1.0 FTE, Alexei) the first prototype should be issued to the middle of June.**

Nov '02

- o note on how to calibrate using gamma+jet and Z+jet events**
- o note on how to use top in calibration – ?**
- o integration of different calibration procedures**

Manpower

**need to get manpower for HB/HE specific tasks,
and somehow establish contact between anybody
working on these tasks for HB/HE and our group
For HE radiation damages – Andrei, Vladimir
Palichik**